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 FACIL: 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335  
 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389  
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SUBJECT: Addresses concerns re inadequate protection for seismic  
 Category I piping runs between condensate storage tank &  
 auxiliary feedwater pumps.

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FLORIDA POWER & LIGHT COMPANY

JANUARY 20 1987

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U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D. C. 20555

Gentlemen:

Re: St. Lucie Units 1 and 2  
Docket Nos. 50-335 and 50-389  
Seismic Category I Piping Runs Between the  
Condensate Storage Tank and the Auxiliary Feedwater Pumps

By letter dated November 10, 1986 (E. G. Tourigny to C. O. Woody), the NRC staff questioned the adequacy of the protection for the seismic Category I piping runs between the condensate storage tank and the auxiliary feedwater pumps passing underneath a non-seismic Category I structure, the turbine building. The staff postulated a collapse of the turbine building under a seismic event and was unable to confirm that the piping runs would be sufficiently protected. The following information is provided to assist the staff in its review of this issue.

This concern was addressed during licensing of St. Lucie Unit 2 in response to NRC Question No. 410.38. As indicated in the response to that question, the basemat and steel superstructure of the Unit 2 turbine building was designed to withstand the effects of a Safe Shutdown Earthquake (SSE). The St. Lucie Unit 2 Final Safety Analysis Report, Section 10.4.9.3 reflects the above information.

Regarding St. Lucie Unit 1, the turbine building was reanalyzed for seismic loading in 1975 to assure the integrity of the turbine building structure for the seismic loading condition.

These buildings are not classified as Category I structures although they have been designed to withstand seismic loads, as described above. Therefore, FPL does not postulate a collapse of either St. Lucie turbine building during a seismic event, and, as a result, there is no potential for interaction between the seismic Category I piping runs and the non-seismic Category I turbine buildings.

Please contact us if you have any further questions.

Very truly yours,

C. O. Woody  
Group Vice President  
Nuclear Energy

COW/EJW/cab

cc: Dr. J. Nelson Grace, Region II, USNRC  
USNRC Senior Resident Inspector, St. Lucie Plant

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